

**RECEIVED  
CENTRAL FAX CENTER****JUN 24 2008****Amendments to the Claims:**

The listing of the claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Canceled).

Claim 2 (Currently Amended): ~~Use~~ The process according to claim ~~+~~ 17, wherein at 23°C the gel coat material displays an elongation at break ~~(measured measured~~ as per DIN EN ISO 527) 527 of at least 3%, ~~preferably greater than 4%, in particular greater than 5%.~~

Claim 3 (Currently Amended): ~~Use~~ The process according to claim ~~+~~ 17, wherein the polyurethane gel coat material is not, or not completely, cured at the time when it is brought into contact with the synthetic resin, ~~wherein the bringing into contact with the synthetic resin is preferably an application of synthetic resin onto the gel coat.~~

Claim 4 (Currently Amended): ~~Use~~ The process according to claim ~~+~~ 17, wherein the synthetic resin used comprises one or several reinforcing materials, wherein glass ~~fibre~~ fiber fabric

and/or glass ~~fibre~~ fiber nonwoven and plastic ~~fibre~~ fiber fabric or carbon ~~fibre~~ fiber bonded fabric are ~~preferred~~ used as reinforcing material and the synthetic resin used is ~~especially~~ preferably a prepreg, in particular an epoxy resin prepreg with glass ~~fibre~~ fiber fabric and/or glass ~~fibre~~ fiber nonwoven or an injection resin.

Claim 5 (Currently Amended): ~~Use~~ The process according to claim ~~1~~ 17, wherein the light-resistant aromatic amine, dissolved in toluene ~~(20 wt. % at 20 wt. % amine in toluene)~~ toluene, mixed at 23°C with an equimolar quantity of an oligomeric HDI isocyanate with an NCO content of about 5.2 mol/kg and a viscosity in the range from 2750 to 4250 mPas, dissolved in toluene ~~(60 wt. % at 80 wt. % isocyanate in toluene)~~ toluene gives a gel time of more than 30 seconds, ~~preferably more than 3 minutes, more preferably more than 5 minutes, in particular more than 20 minutes~~ (determined determined as per E-DIN VDE 0291-2, 1997-06, section 9.2.1) 9.2.1.

Claim 6 (Currently Amended): ~~Use~~ The process according to claim ~~1~~ 17, wherein the light-resistant aromatic amine, dissolved in toluene ~~(25 wt. % 25 wt. % amine in toluene)~~ toluene, mixed at 23°C with an equimolar quantity of an oligomeric HDI isocyanate

with an NCO content of about 5.2 mol/kg and a viscosity in the range from 2750 to 4250 mPas, gives a mixture, where the mixture, when applied onto inert white test plates and cured in the forced-air oven for 30 minutes at 80°C and then for 60 minutes at 120°C, gives a coating with a dry layer thickness of about 20 µm, and the coating on 300-hour artificial weathering as per ASTM-G 53 ~~(+ with 4 hrs UVB 313, 4 hrs ~~condensation~~)~~ condensation gives a ~~colour~~ color shade change delta E ~~(measured~~ measured as per DIN 5033 part 4 and assessed as per DIN ~~6174~~ 6174 of at most 50, ~~preferably at most 45, in particular at most 40, such as at most 30.~~

Claim 7 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the light-resistant aromatic amine is a methylenebis(aniline), ~~in particular a 4,4'-methylenebis(2,6-dialkyl-aniline).~~

Claim 8 (Currently Amended): ~~Use~~ The process according to claim 7, wherein the light-resistant aromatic amine is 4,4'-methylenebis(3-chloro-2,6-diethylaniline).

Claim 9 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the content of light-resistant aromatic amine

in the polyol component, based on the total mass of the components ~~A1, A2 and A3~~ (A1), (A2) and (A3) of the polyol component, lies in the range from 0.1 to 20 wt.%, ~~preferably 0.3 to 10 wt.%, more preferably 0.5 to 5 wt.%, and in particular 1 to 3 wt.%.~~

Claim 10 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the content of low molecular weight polyol in the polyol component, based on the total mass of the components ~~A1, A2 and A3~~ (A1), (A2) and (A3) of the polyol component, lies in the range from 2 to 60 wt.%.

Claim 11 (Currently Amended): ~~Use~~ The process according to claim 10, wherein the content of low molecular weight polyol in the polyol component, based on the total mass of the components ~~A1, A2 and A3~~ (A1), (A2) and (A3) of the polyol component, lies in the range from 5 to 50 wt. %, ~~preferably 10 to 45 wt. more preferably 20 to 40 wt. %, and in particular 30 to 35 wt. %.~~

Claim 12 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the hydroxyl group concentration of the low molecular weight polyol lies in the range from 6 to 15, ~~more~~

~~preferably in the range from 9 to 11~~ mol hydroxyl groups per kg of low molecular weight polyol.

Claim 13 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the low molecular weight ~~polyol~~ polyol is selected from straight-chain or branched polycaprolactone diols, poly-caprolactone triols, polycaprolactone tetrols, polyester ~~polyols~~ polyols, polypropylene oxide triols, polyether polyols and ~~polytetraoxanethylene~~ polytetramethylene oxide diols.

Claim 14 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the higher molecular weight ~~polyol~~ polyol is selected from polyester polyols and polyether polyols, polycarbonate polyols, polyacrylate polyols, polyols based on fatty chemical raw materials ~~such as dimeric fatty acids or natural oils such as castor oil.~~

Claim 15 (Currently Amended): ~~Use~~ The process according to claim ~~±~~ 17, wherein the higher molecular weight ~~polyol~~ polyol has a hydroxyl group concentration of ~~±~~ 1 to 4.99, ~~preferably 2 to 4, in particular 2.5 to 3.8~~ mol hydroxyl groups per kg of higher molecular weight polyol.

Claim 16 (Currently Amended): Use The process according to claim ~~4~~ 17, wherein the content of higher molecular weight polyol in the polyol component, based on the total mass of the components ~~A1, A2 and A3~~ (A1), (A2) and (A3) of the polyol component, lies in the range from 97 to 30 wt. %, ~~preferably 90 to 40 wt. %, more preferably 80 to 45 wt. % and in particular 70 to 50 wt. %.~~

Claim 17 (Currently Amended): Process for the production of synthetic resin composite materials with flexible polyurethane gel coats, which comprises

(i) the mixing of a two-component composition which comprises

A) a polyol component, which contains

A1) one or several low molecular weight polyols with a molecular weight of 160 to 600

g/mol and a hydroxyl group concentration of 5 to less than 20 mol hydroxyl groups per kg of low molecular weight polyol,

A2) one or several higher molecular weight polyols with an average functionality of  $\geq 2$  and a hydroxyl group concentration of less than 5 mol hydroxyl groups per kg of

higher molecular weight polyol and

A3) one or more light-resistant aromatic amines,

and

B) a polyisocyanate component which contains one or several polyisocyanates,

and at least partial curing of the mixture to form a gel coat material and

(ii) the bringing of the mixture into contact with synthetic resin, wherein the synthetic resin comprises epoxy resin and/or vinyl ester resin and is not, or not completely, cured at the time when it is brought into contact with the gel coat material.

Claim 18 (Original): Synthetic resin composite material with flexible polyurethane gel coat, producible by the process according to claim 17.

Claim 19 (Previously Presented): Composite material according to claim 18, wherein it is a wind vane or a part thereof.